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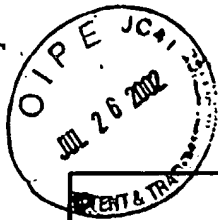
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SHEET 1 OF 5

SUPPLEMENTAL FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MIT-051CN (5473/53)

APPLICANTS: Zilles et al.

SERIAL NO.: 10/055,565

FILING DATE: October 26, 2001

GROUP: 2173

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<del>A73</del>	A73	2,475,484	07/01/49	DeNise	<del>318</del>	<del>628</del>	05/14/46
<del>A74</del>	A74	3,531,868	10/06/70	Stevenson	<del>33</del>	<del>174</del>	04/18/68
<del>A75</del>	A75	3,920,972	11/18/75	Corwin et al.	<del>235</del>	<del>151.11</del>	07/16/74
<del>A76</del>	A76	3,944,798	03/16/76	Eaton	<del>235</del>	<del>161.3</del>	04/18/74
<del>A77</del>	A77	4,216,467	08/05/80	Colston	<del>340</del>	<del>365L</del>	12/22/77
<del>A78</del>	A78	4,367,532	01/04/83	Crum et al.	<del>364</del>	<del>513</del>	12/24/80
<del>A79</del>	A79	4,420,808	12/13/83	Diamond et al.	<del>364</del>	<del>434</del>	01/18/82
<del>A80</del>	A80	4,521,685	06/04/85	Rebman	<del>250</del>	<del>229</del>	03/01/82
<del>A81</del>	A81	4,638,798	01/27/87	Shelden et al.	<del>128</del>	<del>303B</del>	09/10/80
<del>A82</del>	A82	4,653,011	03/24/87	Iwano	<del>364</del>	<del>513</del>	03/27/85
<del>A83</del>	A83	4,670,851	06/02/87	Murakami et al.	<del>364</del>	<del>518</del>	10/22/84
<del>A84</del>	A84	4,680,519	07/14/87	Chand et al.	<del>318</del>	<del>568</del>	09/23/85
<del>A85</del>	A85	4,703,443	10/27/87	Moriyasu	<del>364</del>	<del>559</del>	02/07/85
<del>A86</del>	A86	4,729,098	03/01/88	Cline et al.	<del>364</del>	<del>414</del>	06/05/85
<del>A87</del>	A87	4,769,763	09/06/88	Trieb et al.	<del>364</del>	<del>559</del>	06/16/86
<del>A88</del>	A88	4,791,934	12/20/88	Brunnett	<del>128</del>	<del>653</del>	08/07/86
<del>A89</del>	A89	4,819,195	04/04/89	Bell et al.	<del>364</del>	<del>571.05</del>	01/20/87
<del>A90</del>	A90	4,823,634	04/25/89	Culver	<del>74</del>	<del>471</del>	11/03/87
<del>A91</del>	A91	4,853,874	08/01/89	Iwamoto et al.	<del>364</del>	<del>513</del>	11/20/87
<del>A92</del>	A92	4,942,538	07/17/90	Yuan et al.	<del>364</del>	<del>513</del>	02/23/89
<del>A93</del>	A93	4,945,305	07/31/90	Blood	<del>324</del>	<del>207.17</del>	04/11/89
<del>A94</del>	A94	4,945,501	07/31/90	Bell et al.	<del>364</del>	<del>571.05</del>	04/12/89
<del>A95</del>	A95	4,961,138	10/02/90	Gorniak	<del>364</del>	<del>200</del>	10/02/89



**SUPPLEMENTAL FORM PTO - 1449**  
**INFORMATION DISCLOSURE STATEMENT**

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APPLICANTS: Zilles et al.

SERIAL NO.: 10/055,565

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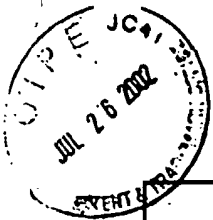
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	A96	4,973,215	11/27/90	Karlen et al.	<del>414</del>	<del>729</del>	02/14/89
	A97	4,982,504	01/08/91	Söderberg et al.	<del>33</del>	<del>502</del>	02/17/89
	A98	5,040,306	08/20/91	McMurtry et al.	<del>33</del>	<del>556</del>	02/20/89
	A99	5,053,975	10/01/91	Tsuchihashi et al.	<del>364</del>	<del>513</del>	06/08/89
	A100	5,088,046	02/11/92	McMurtry	<del>364</del>	<del>474.03</del>	12/19/88
	A101	5,088,055	02/11/92	Oyama	<del>364</del>	<del>560</del>	02/22/90
	A102	5,105,367	04/14/92	Tsuchihashi et al.	<del>395</del>	<del>99</del>	10/16/89
	A103	5,130,632	07/14/92	Ezawa et al.	<del>318</del>	<del>568.11</del>	12/05/90
	A104	5,131,844	07/21/92	Marinaccio et al.,	<del>433</del>	<del>72</del>	04/08/91
	A105	5,185,561	02/09/93	Good et al.	<del>318</del>	<del>432</del>	07/23/91
	A106	5,189,806	03/02/93	McMurtry et al.	<del>33</del>	<del>503</del>	08/17/92
	A107	5,204,824	04/20/93	Fujimaki	<del>364</del>	<del>474.03</del>	08/23/90
	A108	5,220,260	06/15/93	Schuler	<del>318</del>	<del>561</del>	10/24/91
	A109	5,396,265	03/07/95	Ulrich et al.	<del>345</del>	<del>158</del>	09/17/90
	A110	5,414,337	05/09/95	Schuler	<del>318</del>	<del>561</del>	06/11/93
	A111	5,438,529	08/01/95	Rosenberg et al.	<del>364</del>	<del>709.1</del>	01/26/94
	A112	5,555,894	09/17/96	Doyama et al.	<del>128</del>	<del>782</del>	05/02/94
	A113	5,559,412	09/24/96	Schuler	<del>318</del>	<del>561</del>	05/03/95
	A114	5,587,937	12/24/96	Massie et al.	<del>364</del>	<del>578</del>	04/25/95
	A115	5,589,854	12/31/96	Tsai	<del>345</del>	<del>161</del>	06/22/95
	A116	5,623,642	04/01/97	Katz et al.	<del>395</del>	<del>500</del>	04/06/94
	A117	5,642,469	06/01/97	Hannaford et al.	<del>395</del>	<del>99</del>	10/10/93
	A118	5,666,138	09/09/97	Culver	<del>345</del>	<del>161</del>	11/22/94
	A119	5,694,013	12/02/97	Stewart et al.	<del>318</del>	<del>561</del>	09/06/96
	A120	5,731,804	03/24/98	Rosenberg	<del>345</del>	<del>156</del>	01/18/95
	A121	5,742,278	04/21/98	Chen et al.	<del>345</del>	<del>156</del>	11/01/95



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SUPPLEMENTAL FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MIT-051CN (5473/53)
	APPLICANTS: Zilles et al.
	SERIAL NO.: 10/055,565
	FILING DATE: October 26, 2001
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<del>NP</del>	A122	5,767,839	06/16/98	Rosenberg	345	<del>161</del>	03/03/95
<del>NP</del>	A123	5,769,640	06/23/98	Jacobus et al.	<del>434</del>	<del>262</del>	08/10/95
<del>NP</del>	A124	5,800,177	09/01/98	Gillio	434	<del>262</del>	07/11/96
<del>NP</del>	A125	5,800,178	09/01/98	Gillio	<del>434</del>	<del>262</del>	07/11/96
<del>NP</del>	A126	5,800,179	09/01/98	Bailey	434	<del>262</del>	07/23/96
<del>NP</del>	A127	5,802,353	09/01/98	Avila et al.	395	<del>500</del>	06/12/96
<del>NP</del>	A128	5,803,738	09/08/98	Latham	<del>434</del>	<del>29</del>	08/05/96
<del>NP</del>	A129	5,805,140	09/08/98	Rosenberg et al.	345	<del>161</del>	11/17/95
<del>NP</del>	A130	5,821,920	10/13/98	Rosenberg et al.	<del>345</del>	<del>156</del>	03/28/97
<del>NP</del>	A131	5,825,308	10/20/98	Rosenberg	341	<del>20</del>	11/26/96
<del>NP</del>	A132	5,828,197	10/27/98	Martin, et al.	<del>318</del>	<del>567</del>	10/25/96
<del>NP</del>	A133	5,831,408	11/03/98	Jacobus, et al.	318	<del>568.11</del>	05/12/97
<del>NP</del>	A134	5,859,934	01/12/99	Green	382	<del>296</del>	01/14/97
<del>NP</del>	A135	5,880,714	03/09/99	Rosenberg et al.	345	<del>156</del>	01/15/97
<del>NP</del>	A136	5,889,670	03/30/99	Schuler et al.	364	<del>186</del>	01/11/96
<del>PATENT WITHDRAWN</del>	A137	<del>5,903,456</del>	<del>05/11/99</del>	<del>Schena et al.</del>	<del>364</del>	<del>190</del>	<del>01/27/97</del>
<del>PATENT WITHDRAWN</del>	A138	<del>5,907,487</del>	<del>05/25/99</del>	<del>Rosenberg et al.</del>	<del>364</del>	<del>190</del>	<del>04/02/97</del>
<del>NP</del>	A139	5,913,727	06/22/99	Ahdoot	463	<del>39</del>	06/13/97
<del>NP</del>	A140	5,929,607	07/27/99	Rosenberg et al.	320	<del>166</del>	04/02/97
<del>NP</del>	A141	5,929,846	07/27/99	Rosenberg et al.	<del>345</del>	<del>161</del>	06/05/97
<del>NP</del>	A142	5,956,484	09/21/99	Rosenberg et al.	395	<del>200.33</del>	08/01/96
<del>NP</del>	A143	6,084,587	07/04/00	Tarr et al.	345	<del>419</del>	02/08/96
<del>NP</del>	A144	6,191,796	02/20/01	Tarr	345	<del>433</del>	01/21/98
<del>NP</del>	A145	6,337,678	01/20/02	Fish	345	<del>156</del>	07/21/99
<del>NP</del>	A146	6,342,880	01/20/02	Rosenberg et al.	345	<del>161</del>	10/31/95
<del>NP</del>	A147	6,369,834 B1	04/09/02	Zilles et al.	345	<del>701</del>	06/02/99



SHEET 4 OF 5

SUPPLEMENTAL FORM PTO - 1449  
INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MIT-051CN (5473/53)

APPLICANTS: Zilles et al.

SERIAL NO.: 10/055,565

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## FOREIGN PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B9	WO 95/02801	01/26/95	PCT	G01B	7/03	07/12/94	N	Y
	B10	WO 97/44775	11/27/97	PCT	G09G G06G B25J G05B G06F G06G A03B	5/08 3/00 9/18 19/19 19/408 17/00 7/48 71/00 24/00	05/16/97	N	Y
	B11	WO 98/06024	02/12/98	PCT	G06G	3/00 15/16 17/30	07/31/97	N	Y
	B12	WO 98/26342	06/18/98	PCT	G06F	15/00	11/25/97	N	Y
	B13	WO 98/30951	07/16/98	PCT	G09E	3/02	01/07/98	N	Y
	B14	WO 98/58308	12/23/98	PCT	G06F	3/033	06/15/98	N	Y
	B15	WO 98/58323	12/23/98	PCT	G06F	15/00	06/16/98	N	Y
	B16	WO 99/10872	03/04/99	PCT	G09G	5/00	08/21/98	N	Y
	B17	EP 0 915 434 A2	05/12/99	EP	G06E	15/50	05/14/98	N	Y

## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C42	Avila et al., "A Haptic Interaction Method for Volume Visualization," GE Corporate Research & Development, Schenectady, NY, pp. 1-9 (1996).
	C43	Bergamasco, "Design of Hand Force Feedback Systems for Glove-like Advanced Interfaces", IEEE, September 1992, pp. 286-293.
	C44	Burdea, G.C., "Force And Touch Feedback For Virtual Reality," John Wiley and Sons, Inc., New York, New York, pp. 190-193 (1996).
	C45	Colgate et al., "Implementation of Stiff Virtual Walls in Force Reflecting Interfaces," IEEE Virtual Reality Annual International Symposium (Seattle, WA), pp. 202-208 (September 18-22, 1993).
	C46	Decaudin, P., "Geometric Deformation by Merging a 3D-Object with a Simple Shape," Graphics Interface '96 Proceedings (Toronto, Canada), 6 pgs. (May 21-24, 1996).
	C47	Galyean, T.A., "Sculpting: An Interactive Volumetric Modeling Technique," Computer Graphics (SIGGRAPH '91 Las Vegas), Vol. 25, No. 4, pp. 267-274 (July 1991).



SHEET 5 OF 5

SUPPLEMENTAL FORM PTO - 1449  
INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MIT-051CN (5473/53)

APPLICANTS: Zilles et al.

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C48	Hashimoto et al., "Dynamic Force Simulator for Force Feedback Human-Machine Interaction", IEEE, September 1993, pp. 209-215.
C49	Hirota et al., "Providing Force Feedback in Virtual Environments", IEEE, September 1995, pp. 22-30.
C50	Hirota et al., "Development of Surface Display," Proceedings of the Virtual Reality Annual International Symposium (Seattle), pp. 256-262 (September 18-23, 1993).
C51	Immersion Corp., "Impulse Engine 2000," <a href="http://www.immerse.com/WWWpages/IE2000pg.htm">http://www.immerse.com/WWWpages/IE2000pg.htm</a> , 2 pgs. (1997).
C52	Ishii et al., "A 3D Interface Device with Force Feedback: A Virtual Work Space for Pick-and-Place Tasks", IEEE, September 1993, pp. 331-335.
C53	Iwata, H., "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics (SIGGRAPH '90 Dallas), Vol. 24, No. 4, pp. 165-170 (August 1990).
C54	Kelley et al. "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface Using an Electromagnetically Actuated Input/Output Device," Department of Electrical Engineering, University of British Columbia, Vancouver, BC, V6T 1Z4, Canada, October 19, 1993, pp. 1-27.
C55	Lewis, P.H., "Electronic Pen With Its Own Eraser", Personal Computers, July, 1995, p. C8.
C56	Millman et al., "A System for the Implementation and Kinesthetic Display of Virtual Environments," Telemanipulator Technology, Proceedings of 1992 SPIE, Vol. 1833, pp. 49-56 (1992).
C57	Payne et al., "Distance Field Manipulation of Surface Models," IEEE Computer Graphics & Applications, pp. 65-71 (January 1992).
C58	Wang et al., "Volume Sculpting," 1995 Symposium on Interactive 3D Graphics (Monterey, CA), pp. 151-156 (1995).
C59	Wilson R.K., "Many-Atom Molecular Dynamics with an Array Processor", Department of Chemistry, University of California - San Diego, La Jolla, 1977, pp. 147-169
C60	Wilson R.K., "Multiprocessor Molecular Mechanics", Department of Chemistry, University of California, San Diego, La Jolla, 1975, pp. 17-52

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Examiner: Nami Rae Pillai

Date: 7/29/04



SHEET 1 OF 3

FORM PTO - 1449

ATTORNEY DOCKET NO.: MIT-051CN2

SECOND SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENTAPPLICANTS: Zilles *et al.*

SERIAL NO.: 10/055,565

FILING DATE: October 26, 2001

GROUP: 2173

## U.S. PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>AB</i>	A148	5,903,270	05/11/1999	Gentry <i>et al.</i>			
<i>AB</i>	A149	5,963,212	10/05/1999	Bakalash			
<i>AB</i>	A150	5,973,678	10/26/1999	Stewart			
<i>AB</i>	A151	6,064,394	05/16/2000	Morrison			
<i>AB</i>	A152	6,384,822 B1	05/07/2002	Bilodeau <i>et al.</i>	345	422	10/13/99
<i>AB</i>	A153	6,608,631	08/19/2003	Milliron			
<i>AB</i>	A154	2003/0117411	06/26/2003	Fujiwara <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
<i>AB</i>	C61	"3-D Animation Workshop," printed 7/29/03, <a href="http://webreference.com/3d/">http://webreference.com/3d/</a> , Lessons 39, 64-68, and 72; 79 pgs.							
<i>AB</i>	C62	Alejandro, "What is a Tessellation?" The Math Forum, Drexel University, printed 07/29/03, <a href="http://mathforum.org/sum95/suzanne/whattess.html">http://mathforum.org/sum95/suzanne/whattess.html</a> , 4 pgs.							
<i>AB</i>	C63	Altmann, "About Nonuniform Rational B-Splines - NURBS," Worcester Polytechnic Institute, printed 7/29/03, <a href="http://www.cs.wpi.edu/~matt/courses/cs563/talks/nurbs.html">http://www.cs.wpi.edu/~matt/courses/cs563/talks/nurbs.html</a> , 6 pgs							
<i>AB</i>	C64	Arraich, "Quick Mask," <a href="http://www.arraich.com/ref/aatool_quick_mask6.htm">http://www.arraich.com/ref/aatool_quick_mask6.htm</a> , 3 pgs.							
<i>AB</i>	C65	Bentley, "Rendering Cubic Bezier Patches," Worcester Polytechnic Institute, printed 11/17/03, <a href="http://www.cs.wpi.edu/~matt/courses/cs563/talks/surface/bez_surf.html">http://www.cs.wpi.edu/~matt/courses/cs563/talks/surface/bez_surf.html</a> , 10 pgs.							
<i>AB</i>	C66	Birn, "Tutorial: NURBS Head Modeling," printed 07/29/03, <a href="http://www.3drender.com/jbirn/ea/HeadModel.html">http://www.3drender.com/jbirn/ea/HeadModel.html</a> , 5 pgs.							
<i>AB</i>	C67	"Curves," Avid Technology, printed 11/06/03, <a href="http://www.iro.umontreal.ca/~roys/softimage/html/model/curves.html">http://www.iro.umontreal.ca/~roys/softimage/html/model/curves.html</a> , chapter 10, 10 pgs.							
<i>AB</i>	C68	Farin, "NURBS," printed 11/17/03, <a href="http://www.eros.cagd.eas.asu.edu/~farin/rbook/toc.html">www.eros.cagd.eas.asu.edu/~farin/rbook/toc.html</a> , 2 pgs.							
<i>AB</i>	C69	Feldman, "Texture Mapping," <a href="http://www.geocities.com/SiliconValley/2151/tmap.html">http://www.geocities.com/SiliconValley/2151/tmap.html</a> (22pgs.)							

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C70	Fisher et al., "Pixel Values," <a href="http://www.dai.ed.ac.uk/HIPR2/value.htm">http://www.dai.ed.ac.uk/HIPR2/value.htm</a> (1 pg.)
C71	Foskey et al., "ArtNova: Touch-Enabled 3D Model Design," Proceedings of IEEE Virtual Reality 2002, March 24-28, 2002, Orlando, Florida pgs. 119-126.
C72	"Fundamentals of NURBS Modeling," <u>Avid Technology</u> , printed 11/06/03, <a href="http://www.iro.umontreal.ca/~roys/softimage/html/model/nurbs_basics.html">http://www.iro.umontreal.ca/~roys/softimage/html/model/nurbs_basics.html</a> , chapter 9, 7 pgs.
C73	Gu et al., "Global Conformal Surface Parameterization," Eurographics Symposium on Geometry Processing (2003), 12 pgs.
C74	"How to use Postscript Art as a Stencil in Photoshop," <u>Swanson Tech Support, Photoshop Techniques</u> 004, 4 pgs.
C75	Komerska et al., "Haptic Interface for Center-of-Workspace Interaction: Demonstration Paper," <u>Haptics Interfaces for Virtual Environments and Teleoperator Systems</u> (2002), pp. 352-353.
C76	Komerska et al., "Haptic Task Constraints for 3D Interactions," <u>Proceedings, IEEE Haptics Interfaces for Virtual Environments and Teleoperator Systems</u> , (March 22-23, 2003), pp. 270-271.
C77	Lenzmeier, "Color Depth and Color Spaces," <a href="http://www.csbsju.edu/itservices/teaching/c_space/colors.htm">http://www.csbsju.edu/itservices/teaching/c_space/colors.htm</a> (3 pgs.).
C78	"Lesson 12: Blur, Sharpen & Smudge," <a href="http://iit.bloomu.edu/vthc/Photoshop/enhancing/blurring.htm">http://iit.bloomu.edu/vthc/Photoshop/enhancing/blurring.htm</a> , 3 pgs.
C79	"Lesson 14: Selection Tools," <a href="http://iit.bloomu.edu/vthc/Photoshop/BLENDING/selectiontools.htm">http://iit.bloomu.edu/vthc/Photoshop/BLENDING/selectiontools.htm</a> , 7 pgs.
C80	"Lesson 18: Opacity," <a href="http://iit.bloomu.edu/vthc/Photoshop/SpecialEffects/opacity.htm">http://iit.bloomu.edu/vthc/Photoshop/SpecialEffects/opacity.htm</a> , 2 pgs.
C81	"Lesson 22: Vector Shapes," <a href="http://iit.bloomu.edu/vthc/Photoshop/DRAWING/vectorshapes.htm">http://iit.bloomu.edu/vthc/Photoshop/DRAWING/vectorshapes.htm</a> (5 pgs.)
C82	"Lesson 23: Gradients," <a href="http://iit.bloomu.edu/vthc/Photoshop/DRAWING/gradients.htm">http://iit.bloomu.edu/vthc/Photoshop/DRAWING/gradients.htm</a> (7 pgs.)
C83	"Lesson 19: Color Selection," <a href="http://iit.bloomu.edu/vthc/Photoshop/DRAWING/colorpicker.htm">http://iit.bloomu.edu/vthc/Photoshop/DRAWING/colorpicker.htm</a> (4 pgs.)
C84	"Lesson 4: Layers," <a href="http://iit.bloomu.edu/vthc/Photoshop/Basics/layers.htm">http://iit.bloomu.edu/vthc/Photoshop/Basics/layers.htm</a> (2 pgs.)
C85	"Lesson 7: Color Balance," <a href="http://iit.bloomu.edu/vthc/Photoshop/enhancing/colorbalance.htm">http://iit.bloomu.edu/vthc/Photoshop/enhancing/colorbalance.htm</a> (3 pgs.)
C86	"Lesson 8: Brightness & Contrast," <a href="http://iit.bloomu.edu/vthc/Photoshop/enhancing/brightness&amp;contrast.htm">http://iit.bloomu.edu/vthc/Photoshop/enhancing/brightness&amp;contrast.htm</a> (2 pgs.)
C87	Miller et al., "The Design of 3D Haptic Widgets," Proceedings of the 1999 Symposium on Interactive 3D Graphics Conference Proceedings, (1999) pp. 1-6.
C88	Nagel, "A Closer Look: Photoshop's New Paint Engine, Page 2 of 3," March 07, 2002, <a href="http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm">http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm</a> (6 pgs.).
C89	Nagel, "A Closer Look: Photoshop's New Paint Engine, Page 3 of 3" March 07, 2002, <a href="http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm">http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm</a> (5 pgs.).
C90	Nagel, "A Closer Look: Photoshop's New Paint Engine," March 07, 2002, <a href="http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm">http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm</a> (5 pgs.).
C91	O'Rourke, "Comp.Graphics.Algorithms Frequently Asked Questions, Section 5. 3D Computations," <a href="http://www.exaflop.org/docs/cqafaq/cqa5.html">http://www.exaflop.org/docs/cqafaq/cqa5.html</a> (13 pgs.).

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C92	"Points, Nets, Patches..." printed 11/17/03, <a href="http://www.people.nnov.ru/fractal/splines/nets.htm">http://www.people.nnov.ru/fractal/splines/nets.htm</a> , 2 pgs.
C93	Porter et al., "Compositing Digital Images," Computer Graphics, Vol. 18, Number 3, July 1984, pgs. 253-259.
C94	"Powerful Photoshop Layers: Layer Effects Settings," <a href="http://www.webreference.com/graphics/column32/5.html">http://www.webreference.com/graphics/column32/5.html</a> (5 pgs.).
C95	"Raindrop Geomagic, Inc. product description for "Geomagic Shape," 10/3/03 printout, <a href="http://www.geomagic.com/products/shape">http://www.geomagic.com/products/shape</a> , 2 pgs.
C96	"Raindrop Geomagic, Inc. product description for "Geomagic Shape," 11/26/2003 printout, <a href="http://www.geomagic.com/products/shape">http://www.geomagic.com/products/shape</a> , 2 pgs.
C97	"Raindrop Geomagic, Inc. product description for "Geomagic Studio," <a href="http://www.macdac.com/raindrop/studio.htm">http://www.macdac.com/raindrop/studio.htm</a> (4 pgs.).
C98	Rea, "Digital Photography and Electronic Imaging Glossary," Version 7.5.2 (August 2000), 40 pgs.
C99	Rogers, "An Introduction to NURBS," Morgan Kaufmann Publishers, (2000), pp.1-4.
C100	"Sensable Technologies, "Feature Overview," 11/25/03 printout, <a href="http://www.sensable.com/products/3ddesign/freeform/overview.asp">http://www.sensable.com/products/3ddesign/freeform/overview.asp</a> , 5 pgs.
C101	"Sensable Technologies, "Feature Overview: Emboss with Wrapped Image," 11/25/03 printout, <a href="http://www.sensable.com/products/3ddesign/freeform/emboss_with_wrap.asp">http://www.sensable.com/products/3ddesign/freeform/emboss_with_wrap.asp</a> , 1 pg.
C102	"Sensable Technologies, "Free Form Concept System," 01/20/04 printout, <a href="http://www.sensable.com/products/3ddesign/concept/index.asp">http://www.sensable.com/products/3ddesign/concept/index.asp</a> , 2 pgs.
C103	Sharman, "The Marching Cubes Algorithm," <a href="http://www.exaflop.org/docs/marchcubes/ind.html">http://www.exaflop.org/docs/marchcubes/ind.html</a> (6 pgs.).
C104	Sorkine, et. al, "Bounded-distortion Piecewise Mesh Parameterization," Proceedings of the Conference on Visualization 2002, Boston, Massachusetts, pgs. 355-362.
C105	"Surfaces," Avid Technology, printed 11/06/03, <a href="http://www.iro.umontreal.ca/~roys/softimage/html/model/surfs.html">http://www.iro.umontreal.ca/~roys/softimage/html/model/surfs.html</a> , chapter 11, 22 pgs.
C106	"Tensor Product Spline Surfaces," printed 11/17/03, <a href="http://www.ibiblio.org/e-notes/Splines/Inter.htm">http://www.ibiblio.org/e-notes/Splines/Inter.htm</a> , 3 pgs.
C107	"Touch-Enabled 3D Model Design," Department of Computer Science, University of North Carolina at Chapel Hill (February 2002 ), 2pgs.
C108	Weisstein, "Conformal Mapping," Wolfram Research, printed 11/11/03, <a href="http://mathworld.wolfram.com/ConformalMapping.html">http://mathworld.wolfram.com/ConformalMapping.html</a> , 7 pgs.

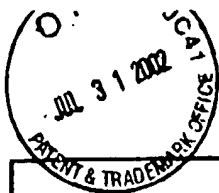
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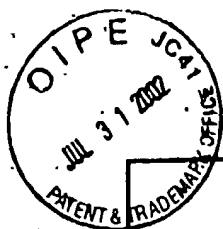
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U.S. PATENT DOCUMENTS							
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<i>[initials]</i>	A1	3,168,203	02/01/65	Gallistel	<del>214</del>	<del>1</del>	07/07/60
<i>[initials]</i>	A2	3,263,824	08/01/66	Jones et al.	<del>214</del>	<del>1</del>	12/20/63
<i>[initials]</i>	A3	3,449,008	06/01/69	Colechia	<del>294</del>	<del>88</del>	06/08/67
<i>[initials]</i>	A4	3,618,786	11/01/71	Fick	<del>214</del>	<del>1CM</del>	01/02/69
<i>[initials]</i>	A5	3,637,092	01/01/72	George et al.	<del>214</del>	<del>1CM</del>	04/30/70
<i>[initials]</i>	A6	4,062,455	12/13/77	Flatau	<del>214</del>	<del>1</del>	11/01/76
<i>[initials]</i>	A7	4,150,803	04/01/79	Fernandez	<del>244</del>	<del>135A</del>	10/05/77
<i>[initials]</i>	A8	4,302,138	11/01/81	Zarudiansky	<del>414</del>	<del>5</del>	01/22/79
<i>[initials]</i>	A9	4,510,574	04/09/85	Guttet et al.	<del>700</del>	<del>260</del>	08/23/82
<i>[initials]</i>	A10	4,604,016	08/01/86	Joyce	<del>414</del>	<del>7</del>	08/03/83
<i>[initials]</i>	A11	4,632,341	12/30/86	Repperger et al.	<del>244</del>	<del>230</del>	02/06/85
<i>[initials]</i>	A12	4,654,648	03/01/87	Herrington et al.	<del>340</del>	<del>710</del>	12/17/84
<i>[initials]</i>	A13	4,655,673	04/01/87	Hawkes	<del>414</del>	<del>730</del>	05/10/83
<i>[initials]</i>	A14	4,661,032	04/01/87	Arai	<del>414</del>	<del>5</del>	12/18/85
<i>[initials]</i>	A15	4,676,002	06/01/87	Slocum	<del>33</del>	<del>1MP</del>	12/20/85
<i>[initials]</i>	A16	4,795,296	01/01/89	Jau	<del>414</del>	<del>5</del>	10/17/86
<i>[initials]</i>	A17	4,800,721	01/31/89	Cemenska et al.	<del>60</del>	<del>393</del>	02/13/87
<i>[initials]</i>	A18	4,837,734	06/06/89	Ichikawa et al.	<del>364</del>	<del>513</del>	02/26/87
<i>[initials]</i>	A19	4,839,838	06/01/89	LaBiche et al.	<del>364</del>	<del>709.1</del>	03/30/87
<i>[initials]</i>	A20	4,888,538	12/19/89	Dimitrov et al.	<del>318</del>	<del>675</del>	05/14/87
<i>[initials]</i>	A21	4,893,981	01/16/90	Yoshinada et al.	<del>414</del>	<del>5</del>	03/26/87
<i>[initials]</i>	A22	4,907,970	03/01/90	Meenen, Jr.	<del>434</del>	<del>45</del>	03/30/88
<i>[initials]</i>	A23	4,907,973	03/13/90	Hon	<del>434</del>	<del>262</del>	11/14/88

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	A24	4,988,981	01/01/91	Zimmerman et al.	<del>340</del>	<del>709</del>	02/28/89
	A25	5,004,391	04/01/91	Burdea	<del>414</del>	<del>6</del>	08/21/89
	A26	5,007,300	04/01/91	Siva	<del>74</del>	<del>471 X</del>	01/22/90
	A27	5,018,922	05/01/91	Yoshinada et al.	<del>414</del>	<del>5</del>	09/12/89
	A28	5,019,761	05/28/91	Kraft	<del>318</del>	<del>568.1</del>	02/21/89
	A29	5,038,089	08/01/91	Szakaly	<del>318</del>	<del>568.1</del>	10/28/88
	A30	5,044,956	09/01/91	Behensky et al.	<del>434</del>	<del>45</del>	01/12/89
	A31	5,072,361	12/10/91	Davis et al.	<del>364</del>	<del>167.1</del>	02/01/90
	A32	5,103,404	04/07/92	McIntosh	<del>318</del>	<del>568.2</del>	12/20/89
	A33	5,116,051	05/01/92	Moncrief et al.	<del>273</del>	<del>448 B</del>	06/08/90
	A34	5,116,180	05/01/92	Fung et al.	<del>414</del>	<del>5</del>	05/03/90
	A35	5,142,931	09/01/92	Menahem	<del>74</del>	<del>471 XY</del>	02/14/91
	A36	5,143,505	09/01/92	Burdea et al.	<del>414</del>	<del>5</del>	02/26/91
	A37	5,184,319	02/02/93	Kramer	<del>364</del>	<del>806</del>	02/02/90
	A38	5,193,963	03/01/93	McAffee	<del>414</del>	<del>5</del>	10/01/90
	A39	5,223,776	06/29/93	Radke et al.	<del>318</del>	<del>568.1</del>	12/31/90
	A40	5,239,246	08/24/93	Kim	<del>318</del>	<del>568.11</del>	07/08/92
	A41	5,255,211	10/01/93	Redmond	<del>364</del>	<del>578</del>	02/22/90
	A42	5,264,768	11/23/93	Gregory et al.	<del>318</del>	<del>561</del>	10/06/92
	A43	5,266,875	11/01/93	Slotine et al.	<del>395</del>	<del>99X</del>	05/01/91
	A44	5,354,162	10/01/94	Burdea et al.	<del>414</del>	<del>5</del>	10/11/94
	A45	5,382,885	01/17/95	Salcudean et al.	<del>318</del>	<del>568.11</del>	08/09/93
	A46	5,389,865	02/14/95	Jacobus et al.	<del>318</del>	<del>568.11</del>	12/02/92
	A47	5,429,140	07/04/95	Burdea et al.	<del>128</del>	<del>774</del>	06/04/93
	A48	5,459,382	10/17/95	Jacobus et al.	<del>318</del>	<del>568.11</del>	06/09/94
	A49	5,482,051	01/09/96	Reddy et al.	<del>128</del>	<del>733</del>	04/06/94

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<del>A50</del>	5,489,830	02/01/96	Fernandez	<del>318</del>	<del>628</del>	09/01/94
<del>A51</del>	5,497,452	03/05/96	Shimizu et al.	<del>395</del>	<del>120</del>	03/02/92
<del>A52</del>	5,515,078	05/01/96	Greschler et al.	<del>345</del>	<del>156</del>	
<del>A53</del>	5,576,727	11/19/96	Rosenberg et al.	<del>345</del>	<del>179</del>	06/05/95
<del>A54</del>	D. 377,932	02/11/97	Schena et al.	<del>D14</del>	<del>114</del>	10/31/95
<del>A55</del>	5,623,582	04/22/97	Rosenberg	<del>395</del>	<del>99</del>	07/14/94
<del>A56</del>	5,625,576	04/29/97	Massie et al.	<del>364</del>	<del>578</del>	10/01/93
<del>A57</del>	5,629,594	05/13/97	Jacobus et al.	<del>318</del>	<del>568.11</del>	10/16/95
<del>A58</del>	5,691,898	11/25/97	Rosenberg et al.	<del>364</del>	<del>190</del>	03/28/96
<del>A59</del>	5,701,140	12/23/97	Rosenberg et al.	<del>345</del>	<del>156</del>	07/12/94
<del>A60</del>	5,721,566	02/24/98	Rosenberg et al.	<del>345</del>	<del>161</del>	06/09/95
<del>A61</del>	5,724,264	03/03/98	Rosenberg et al.	<del>364</del>	<del>559</del>	08/07/95
<del>A62</del>	5,734,373	03/31/98	Rosenberg et al.	<del>345</del>	<del>161</del>	12/01/95
<del>A63</del>	5,737,505	04/07/98	Shaw et al.	<del>395</del>	<del>119</del>	10/15/96
<del>A64</del>	5,739,811	04/14/98	Rosenberg et al.	<del>345</del>	<del>161</del>	09/27/95
<del>A65</del>	5,751,289	05/12/98	Myers	<del>345</del>	<del>419</del>	01/16/96
<del>A66</del>	5,754,023	05/19/98	Roston et al.	<del>318</del>	<del>561</del>	10/22/96
<del>A67</del>	5,769,640	08/01/98	Jacobus et al.	<del>434</del>	<del>262</del>	08/10/95
<del>A68</del>	5,784,542	07/21/98	Ohm et al.	<del>395</del>	<del>95</del>	10/23/96
<del>A69</del>	5,790,108	08/04/98	Salcudean et al.	<del>345</del>	<del>184</del>	10/23/92
<del>A70</del>	5,798,752	08/25/98	Buxton et al.	<del>345</del>	<del>146</del>	02/27/95
<del>A71</del>	5,844,392	12/01/98	Peurach et al.	<del>318</del>	<del>568.17</del>	05/21/97
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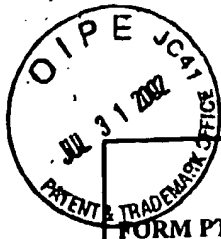
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FOREIGN PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRA CT ONLY	ENGLISH LANG (Y/N)
	B1	WO 96/16397	05/30/96	PCT	G09G	5/08	11/22/95	N	Y
	B2	WO 96/22591	07/25/96	PCT	G09G	5/00	01/17/96	N	Y
	B3	WO 96/42078	12/27/96	PCT	G09G	3/02	06/07/96	N	Y
	B4	WO 97/06410	02/20/97	PCT	G01C	7/00	07/29/96	N	Y
	B5	WO 97/12337	04/03/97	PCT	G06F	19/00	09/25/96	N	Y
	B6	WO 97/12357	04/03/97	PCT	G09G	5/00	09/25/96	N	Y
	B7	WO 97/19440	05/29/97	PCT	G09G	5/00	11/05/96	N	Y
	B8	WO 97/21160	06/12/97	PCT	G06F	N/A	11/26/96	N	Y

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C1	Adachi, Y., "Touch and Trace on the Free-Form Surface of Virtual Object," Proceedings of IEEE-Virtual Reality Annual International Symposium, September 18-22, 1993, Seattle WA, pgs. 162-168.
	C2	Agrawala, M. et al. "3D Painting on Scanned Surfaces", Stanford University, 1995, pgs. 145-150.
	C3	Atkinson, W. D. et al., "Computing with Feeling" COMPUT. & GRAPHICS, Vol. 2, 1977, pgs. 97-103.
	C4	Barr, Alan H., "Global and Local Deformations of Solid Primitives", COMPUTER GRAPHICS, Vol. 18, No. 3, pgs. 21-30 (July, 1984).
	C5	Blinn, J.E., "Simulation of Wrinkled Surfaces," COMPUTER GRAPHICS, Volume 12-3, August 1978, pgs. 286-292.
	C6	Brooks, F. P. et al., "Project GROPE - Haptic Displays for Scientific Visualization," COMPUTER GRAPHICS, Vol. 24, No. 4, August 1990, pgs. 177-185.
	C7	Colgate, J. E. et al., "Factors Affecting the Z-Width of a Haptic Display," published by IEEE Computer Society Press, Los Alamitos, California, in Proceedings: 1994 IEEE International Conference On Robotics and Automation, held May 8-13, 1994 in San Diego, California, Vol. 4, 1994, pgs. 3205-3210.
	C8	Colgate, J. E. et al., "Issues in the Haptic Display of Tool Use," published by IEEE Computer Society Press, Los Alamitos, California, in Proceedings: 1995 IEEE/RSJ International Conference on Intelligent Robots and Systems - Human Robot Interaction and Cooperative Robots, held August 5-9, 1995 in Pittsburgh, Pennsylvania, 1995, pgs. 140-145.
	C9	Dworkin, P. et al., "A New Model for Efficient Dynamic," Fourth Eurographics Animation and Simulation Workshop Proceedings Eurographics Technical Report Series, ISSN 1017-4656, September 4-5, 1993, pp. 135-147.



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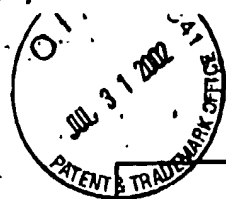
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C10	<del>Leoue H. et al., "Parallel Manipulator," Proceedings of 3rd Robotics Research: The Third International Symposium, Faugeras &amp; Giralt, eds., MIT Press 1986.</del>
C11	<del>Iwata H., "Pen-based Haptic Virtual Environment," Proceedings of IEEE Virtual Reality Annual International Symposium, (September 18-22, 1993, Seattle, WA), pp. 287-292.</del>
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ATTORNEY DOCKET NO.: MIT-051CN2 (5473/53)

APPLICANTS: Zilies et al.

SERIAL NO.: 10/055,565

FILING DATE: October 26, 2001

GROUP: 2173

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